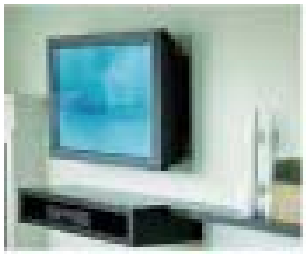
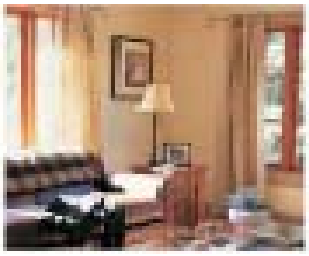
THE EXPERTS' CHOICE

Modified Sine Wave Inverter
Ideal for Long Backup of Home and Office Appliances






Emergency **P**ower **S**ystem – A powerful robust Inverter with a smart charger ideal for long back up requirements and suitable for heavy duty loads such as heaters, air conditioners, refrigerators, freezers etc.

The E.P.S. contains 3 modules in a single unit namely an Inverter, Smart Charger and Switch.

The E.P.S. is a heavy duty, continuously working module generating a modified sinusoidal step wave from a 12v / 24v battery bank which can supply power to various types of loads such as resistive (heaters, lights), inductive loads (air conditioners, refrigerators, vacuum cleaners, and rectifier loads (computers).
The E.P.S. is designed to work under heavy load conditions. De-rating is not necessary.

The smart charger can be set for different charging profiles depending on the battery capacity. During normal operation the load is connected directly to mains supply. In the event of a power failure the switch module automatically transfers to the inverter via the battery. Similarly if the incoming mains supply is too high or too low the unit will transfer to the inverter. The transfer time is typically ¼ to ½ a cycle. The high power charger can charge a 12v / 1600ah battery bank in 14 hours. For example a 2400watt E.P.S. unit can supply a 2000watt load for over 8 hours after charging for 14 hours.

A single E.P.S. unit replaces the need for a separate charger, inverter and switch.

Features

- Continuous high output Inverter & high power battery charger.
- High efficiency, high surge capacity and low idling current.
- Can supply power to any load whether resistive, inductive or capacitive.
- Adjustable load sensing and charging rates.
- Designed for long back up times (depends on load and battery capacity).

TECHNICAL SPECIFICATION

Specification	SYS1512	SYS1524	SYS2412	SYS2424	SYS3624
Continuous Power	1500 Watt	1500 Watt	2400 Watt	2400 Watt	3600 Watt
Efficiency	90 % max				
Output Waveform	Simulated Sine Wave				
Input Power @ Rated Power	165 Ampere	82.5 Ampere	264 Ampere	132 Ampere	198 Ampere
Input Power @ Short Circuit	400 Ampere	225 Ampere	720 Ampere	360 Ampere	540 Ampere
Nominal Input Voltage	12 VDC	24 VDC	12 VDC	24 VDC	24 VDC
Input Voltage Range	10.0~15 VDC	20.0~30 VDC	10.0~15 VDC	20.0~30 VDC	20.0~30 VDC
Auto Low Battery Protection (Heavy / Light Load)	10.0 VDC	20.0 VDC	10.0 VDC	20.0 VDC	20.0 VDC
DC mode output Voltage Regulation	+ / - 10%				
Power Factor Allowed	0.8 to 1				
Frequency Regulation	+ / - 1 Hz				
Standard Output Voltage	120 / 220 / 230 VAC				
Load Sensing (Power Saving)	Selectable 0, 2%, 4%, 6%				
Transfer Time	1 Cycle				
Forced Air Cooling	Variable Speed				
Automatic Transfer Relay	15 Ampere		30 Ampere		
Adjustable Charge Rate	7~50 Ampere	3~35 Ampere	12~100 Ampere	7~50 Ampere	7~70 Ampere
Number of Charge Profiles	2				
Resistive Load	100%				
Inductive Load	Yes				
Motor Load	Yes				
Rectifier Load	Yes				
Wall Mounting	Yes				
Shipping Weight (excluding batteries)	22.5 Kg	22.5 Kg	24.5 Kg	24.5 Kg	25 Kg
Dimension (WxDxH)	184mm x 546mm x 216mm				

Due to ongoing product development the above specifications may change without prior notification.